

ENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 9247 WO Ho	FOR FURTHER ACT		eation of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/EP2003/005144	16 May 2003 (16.05.2003)	31 May 2002 (31.05.2002)
International Patent Classification (IPC) or a A01B 69/00	national classification and	IPC	
Applicant	DEERE & CO	OMPANY	
and is transmitted to the applicant a	according to Article 36.		national Preliminary Examining Authority
This report is also accompa	nied by ANNEXES, i.e., s for this report and/or sheets the Administrative Instruction	heets of the descripti s containing rectifica ons under the PCT).	on, claims and/or drawings which have been ations made before this Authority (see Rule
This report contains indications re-	lating to the following iten	ns:	
I Basis of the report	:		
II Priority			
III Non-establishmen	t of opinion with regard to	novelty, inventive s	tep and industrial applicability
IV Lack of unity of in	nvention		
V Reasoned stateme citations and expla	nt under Article 35(2) with anations supporting such s	h regard to novelty, i tatement	nventive step or industrial applicability;
VI Certain document	s cited		
VII Certain defects in	the international applicati	on	
VIII Certain observation	ons on the international ap	plication	
Date of submission of the demand		Date of completion	of this report
10 December 2003 (10).12.2003)	3	0 July 2004 (30.07.2004)
Name and mailing address of the IPEA/E	iP	Authorized officer	
Facsimile No.		Telephone No.	



International application No.

PCT/EP2003/005144

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

I. Basis o								
1. With r	-	the elements of the international application:*						
\boxtimes	the inten	national application as originally filed						
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	pages _		, as originally filed , filed with the demand					
	pages	4a , filed with the letter of	 *					
	pages _	4a, filed with the letter of	10 April 2004 (10.04:200 :)					
\boxtimes	the clair	1-10	, as originally filed					
	pages _	, as amended (together w	ith any statement under Article 19					
	pages		, filed with the demand					
	pages .	, filed with the letter of						
K-71	pages							
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	pages pages	, filed with the letter of						
	•	ence listing part of the description:	, as originally filed					
1	pages		, filed with the demand					
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	pages							
		to the language, all the elements marked above were available or furnished to this onal application was filed, unless otherwise indicated under this item. Into were available or furnished to this Authority in the following language	Authority in the language in which is:					
1 11110	the la	nguage of a translation furnished for the purposes of international search (under Rul	e 23.1(b)).					
	the la	nguage of publication of the international application (under Rule 48.3(b)).						
	the la	anguage of the translation furnished for the purposes of international preliminary	examination (under Rule 55.2 and/					
3. Wi	4b	d to any nucleotide and/or amino acid sequence disclosed in the internati examination was carried out on the basis of the sequence listing:	onal application, the international					
1 🖺		nined in the international application in written form.]					
		together with the international application in computer readable form.						
		shed subsequently to this Authority in written form.						
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The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.								
	The	statement that the information recorded in computer readable form is identical furnished.	to the written sequence listing has					
4.	The	amendments have resulted in the cancellation of:						
-	7 (77)	the description, pages						
`\	H	the claims, Nos.						
	一片	the drawings, sheets/fig						
5.	This	report has been established as if (some of) the amendments had not been made, signed the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	ince they have been considered to go					
in	eplaceme this rep	ent sheets which have been furnished to the receiving Office in response to an invite port as "originally filed" and are not annexed to this report since they do n l.	,					
** A	ny replac	cement sheet containing such amendments must be referred to under item 1 and ann						

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-10	YES
• • • • • • • • • • • • • • • • • • • •	Claims		NO
Inventive step (IS)	Claims	1-10	YES
myomiyo step (10)	Claims		NO
Industrial applicability (IA)	Claims	1-10	YES
			NO

Citations and explanations

Reference is made to the following documents:

D1: WO 00/35265

D2: US-A-6148255

D3: US-A-5546093

D4: DE-A-19705842

D5: Patent Abstract JP 04 101206

D1 is considered to be the prior art closest to the subject matter of claim 1 (see page 4, line 15 to page 11, line 22). Said document discloses the preamble of claim 1 and the possibility that the transport vehicle is unmanned (page, lines 23 to 30).

The subject matter of claim 1 therefore differs in that, by means of the control system, the transport vehicle can be driven parallel to the harvester and can be docked onto it.

The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

The problem addressed by the present invention can therefore be considered that of providing an unmanned and

autonomously travelling transport vehicle which can also receive harvested crops while it is in motion.

The solution to this problem as proposed in claim 1 of the present application involves an inventive step (PCT Article 33(3)) for the following reasons:

None of the available documents suggests the features of claim 1 in their entirety. Although D2 discloses two vehicles travelling in parallel, in that document there is no autonomous controller to position the harvester. Furthermore, there is nothing to suggest different types of vehicle and therefore nothing to suggest the receiving and docking function. D3 does not suggest parallel travel. In D4, a vehicle receiving harvested crops is controlled from a control centre and not by a controller on said vehicle; automatic operation of said vehicle is not therefore possible. D5 does not disclose automatic control in relation to a harvester position, nor does it disclose parallel travel and docking. The subject matter of claim 1 does not therefore inevitably or logically follow from a combination of the prior art.

Claims 2 to 10 are dependent on claim 1 and therefore likewise satisfy the PCT novelty and inventive step requirements.

Industrial applicability is obviously established.